

## INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB2004/004503

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 E21B31/00 E21B28/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 890 682 A (WORRALL ROBERT N ET AL) 2 January 1990 (1990-01-02) column 1, line 10 - column 2, line 54; figure 1 the whole document	1-3, 6-8, 48, 49
Y	column 2, line 55 - column 3, line 59	4, 5, 50-79
Y	US 2003/168212 A1 (IVANNIKOV VLADIMIR IVANNOVICH ET AL) 11 September 2003 (2003-09-11) the whole document	50-79
A	GB 2 343 465 A (ANDERGAUGE LTD) 10 May 2000 (2000-05-10) the whole document	4, 5 1, 48-50

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

## \* Special categories of cited documents :

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- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- \*&\* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
20 December 2004	28/12/2004
Name and mailing address of the ISA European Patent Office, P.B. 5618 Patentlaan 2 NL - 2280 HV Rijswijk Tel: (+31-70) 340-2040, Tx: 31 651 epo nl Fax: (+31-70) 340-3016	Authorized officer  Morrish, S

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In national Applications No  
PCT/GB2004/004503

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4890682	A	02-01-1990	CA DE EP	1319675 C 3776959 D1 0245892 A2		29-06-1993 09-04-1992 19-11-1987
US 2003168212	A1	11-09-2003	RU AU WO	2235187 C2 6445201 A 0188329 A1		27-08-2004 26-11-2001 22-11-2001
GB 2343465	A	10-05-2000	NONE			

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